Model N703U

Trace-Level Ozone Calibrator



- Trace-level ozone generation with photometer feedback
- Wide-range adjustable flow output
- Selectable sources of zero air
- On board DC-powered dry air pump
- Automated configurable calibration sequences
- Distributed CAN based system architecture
- Real-time diagnostics and performance monitoring
- Optional configurable I/O
- Service-friendly mechanical layout

N Series Platform Features

- Color Touch-Screen Graphics Display
- Two Front Panel USB Ports
- Modular Internal Hardware Design
- All DC-Powered Internal Components
- Large Internal Data Storage
- Serial and TCP/IP Ethernet Included
- Digital and Analog Expansion Options
- Indicator Illuminated Soft Power Switch
- Split Fold-Down Rear Panel

The Model N703U trace level ozone calibrator is designed for calibration and verification of precision gas analyzers. Combining an integrated ozone generator with a high-accuracy UV photometer, the N703U provides stable and repeatable ozone concentrations across a wide operating range, including ultra-low levels required for modern ambient monitoring applications.

The ozone calibrator uses a photolytic ozone generator and photometer feedback to continuously monitor and control ozone output, ensuring accurate concentration delivery and long-term stability. Adjustable flow rates support both low-level and high-output applications, with flexible automation capabilities for routine calibration tasks.

Instrument functions are managed through a distributed CAN Bus based electronics architecture with independently controlled modules. This design isolates faults to individual modules, simplifying troubleshooting and field service while improving overall system reliability and uptime.

Operation and calibration are managed through the NumaView™ software interface, with remote access providing full control and access to internal data storage from a PC or tablet.

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System	Linearity	± 1% of full scale
	Precision	1.0 ppb
	Response Time	< 240 seconds to 95%
	Stability (7 days)	< 1% with photometer feedback < 3% without photometer feedback (CNST)
Ozone Generator Module	Flow Rate	1 to 5 LPM adjustable (with internal zero air source) 1 to 15 LPM adjustable (with external zero air source)
	Maximum Concentration	5 ppm at 1 LPM
	Minimum Concentration	2 ppb at 5 LPM
	Response Time	< 240 seconds at 98%
UV Photometer	Range	0-100 ppb to 0-10 ppm (selectable)
	Precision	1.0 ppb
	Linearity	± 1% of full scale
	Rise/Fall Time	20 seconds to 95% (photometer response)
	Response Time	< 180 seconds to 95% (system response)
	Zero Drift	< 1.0 ppb/7 days
	Span Drift	< 1%/24 hours
	Lag Time	< 10 seconds
	Flow Rate	800 cc/min ± 10%
Electrical Specifications	Power Requirements	110V-240V, 50/60 Hz, typical consumption 85W
Communication Specifications	Included I/O	1 x Ethernet (TCP/IP) 1 x RS232 2 x Front panel USB device ports
	Optional I/O	Digital I/O Expansion Option: 10 x Control inputs (user definable) 8 x Digital status outputs (user definable) Valve Driver Expansion Option: 12 x Control outputs capable of driving up to 8 x 8-watt valves (user definable) 1 x Analog channel (10V or 5V ranges, user definable)
Physical Specifications	Operating Temperature	5° to 40°C (41° to 104°F)
	Dimensions	7"H x 17"W x 24"D (178 x 432 x 609 mm)
	Weight	31.25 lbs (14.18 kg)

All N Series Instruments include a 2-year manufacture's warranty as well as email and phone support for the lifetime of the instrument.

Specifications subject to change without notice. All specifications are based on constant conditions.

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